CA-IDMS®

Transfer Control Facility
15.0

Computer Associates™

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How to use this manual

What this document is about

This document describes how to use 15.0 of the CA-IDMS transfer control facility (TCF). You can use TCF to transfer control in conjunction with CA-IDMS online compilers (such as online mapping) and development tools (such as the online subschema compiler).

Who should use this manual

This manual is appropriate for applications programmers, systems programmers, database administrators, and others who use one or more of the CA-IDMS online development tools and who need the facility of a workbench-oriented tool set.

How information is presented

This manual contains five chapters:

- **Introduction** (Chapter 1)

  Provides an overview of TCF, including an example of its use

- **Using TCF** (Chapter 2)

  Discusses how to invoke TCF, transfer between development tools and online compilers, and exit from TCF

- **TCF Selection Screen** (Chapter 3)

  Describes the Selection screen that displays options available to you under TCF

- **SWITCH Command** (Chapter 4)

  Presents syntax for the SWITCH command, which you can use to transfer directly between development tools and online compilers under TCF

- **Development Tools under TCF** (Chapter 5)

  Describes how to transfer out of each CA-IDMS development tool and online compiler available under TCF

Related CA documentation

For further details about using the tools presented in this manual, see the manuals listed below, as appropriate:

- For more information on CA-ADS, see:
  - *CA-ADS User Guide*
  - *CA-ADS Reference Guide*
- For more information about mapping, see:
  - *CA-IDMS Mapping Facility*
- For more information about other online compilers, see:
  - *CA-IDMS System Generation*
  - *CA-IDMS Database Administration*
- For more information about the CA-IDMS Command Facility, see:
  - *CA-IDMS Command Facility*
- For more information about CA-OLQ, see:
  - *CA-OLQ User Guide*
  - *CA-OLQ Reference Guide*
- For more information about the Automatic System Facility (ASF), see:
  - *CA-IDMS ASF User Guide*
- For more information about online compiler text editing, see:
  - *CA-IDMS Online Compiler Text Editor*

Chapter 1. Introduction

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1.1 About this chapter

This chapter provides an overview of the transfer control facility (TCF).

1.2 The transfer control facility

What is TCF: The transfer control facility allows you to transfer from one CA-IDMS online development tool to another without having to return first to CA-IDMS/DC (that is, without having to sign off from the first tool and sign on to the next). TCF simplifies transfer between development tools by passing signon and session information between tools.

Use TCF to transfer directly to another tool: Using TCF, you can:

1. Suspend a session of a development tool
2. Transfer directly to another development tool
3. Then transfer back to the suspended session of the first development tool and resume the session.

For example, if you have forgotten the exact names of dictionary records to be copied into a schema, you can temporarily suspend your online schema compiler session while you use the online Data Dictionary (IDD). After verifying the record names, you can resume work in the schema compiler where you left off.

Tools you can invoke from TCF: Development tools and compilers invoked while you are using TCF are said to operate *under* TCF. The following development tools and compilers can be used under TCF and are discussed in this document:

Automatic System Facility (ASF)

CA-ADS

CA-OLQ

IDD menu facility

Online command facility

Online IDD

Online map compiler

Online schema compiler

Online subschema compiler

Online system generation compiler

Each development tool is established separately for use under TCF at system generation time. TCF configuration can vary from site to site. For more information on how development tools are established under TCF, see *CA-IDMS System Generation*.

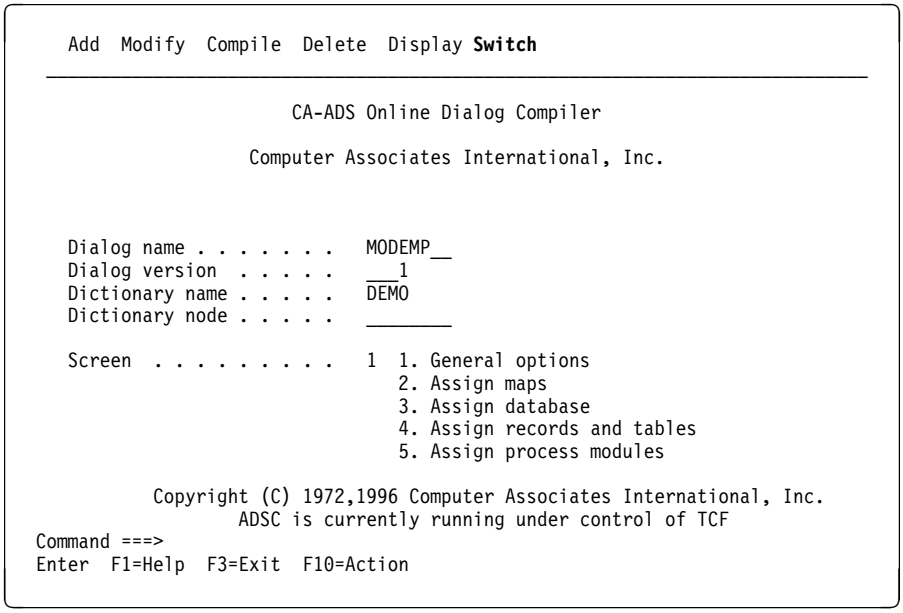
TCF keeps track of your sessions: TCF automatically keeps track of your suspended development tool sessions. You can view your current list of suspended sessions at any time by displaying the TCF Selection screen.

SWITCH command: You can transfer directly from one development tool to another by using the SWITCH command. SWITCH also allows you to transfer to the Selection screen. With SWITCH and the Selection screen you can initiate a new development tool session or resume a suspended one.

1.2.1 Examples

You can transfer to and from development tools under TCF at any time.

Transferring from ADSC to the online map compiler: For example, while using ADSC to define a dialog, you remember that the related map definition is still incomplete. You can suspend your ADSC session and transfer directly to MAPC as shown below:



```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                        CA-ADS Appli    Task ID  MAPC____
                                        --------------------
                    Computer Associat    F3=Exit
                                         ____________________


   Application name . . . .    MODEMP__
   Application version  . .       1
   Dictionary name  . . . .    DEMO
   Dictionary node  . . . .    ________

   Screen . . . . . . . . . _    1. General options
                                 2. Responses and Functions
                                 3. Global records
                                 4. Task codes



Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                      CA-IDMS/DC Online Map Compiler

                    Computer Associates International, Inc.



   Map name . . . . . . . .    ________
   Map version  . . . . . .    ________
   Dictionary name  . . . .    ________
   Dictionary node  . . . .    ________

   Screen . . . . . . . . . _    1. General options
                                 2. Map-Level help text definition
                                 3. Associated records
                                 4. Layout
                                 5. Field definition

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                  MAPC is currently running under control of TCF
Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

Transferring from MAPC to IDD: While using MAPC to complete your map, you need to verify information about a record associated with the map. You can use the SWITCH command to suspend MAPC and transfer directly to online IDD to view the record definition.

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                      CA-IDMS/DC Online Map Compiler

                   Computer Associates International, Inc.


   Map name . . . . . .    EMPMAP__
   Map version  . . . . .  ___1
   Dictionary name  . . .  DEMO____
   Dictionary node  . . .  ________

   Screen . . . . . . . . _    1. General options
                               2. Map-Level help text definition
                               3. Associated records
                               4. Layout
                               5. Field definition

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Command ===>switch idd
Enter  F1=Help  F3=Exit  F10=Action
```

Transferring from IDD back to MAPC: After using IDD to view the record definition, you can use the SWITCH command to transfer directly back to MAPC.

```
switch mapc  IDD 15.0 ONLINE      NO ERRORS      DICT=DEMO       1/229
DISPLAY REC OFFICE V 100.
*+   ADD
*+   RECORD NAME IS OFFICE VERSION IS 100
*+       DATE CREATED IS      01/14/99
*+       TIME LAST UPDATED IS 14440643
*+       RECORD LENGTH IS 76
*+       PUBLIC ACCESS IS ALLOWED FOR ALL
*+       RECORD NAME SYNONYM IS OFFICE VERSION 100
*+           SUFFIX IS -0450
*+           COPIED INTO SUBSCHEMA EMPSS01 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPSSLR2 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPSS02 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA LHNSS01 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA ALPSS01 SCHEMA ALPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA ALPSS02 SCHEMA ALPSCHM VERSION 99
*+           COPIED INTO SUBSCHEMA ALPSS03 SCHEMA ALPSCHM VERSION 98
*+           COPIED INTO SUBSCHEMA ALPSS04 SCHEMA ALPSCHM VERSION 96
*+           COPIED INTO SUBSCHEMA ALPSS05 SCHEMA ALPSCHM VERSION 97
*+           COPIED INTO SUBSCHEMA ALPSS06 SCHEMA ALPSCHM VERSION 95
*+           COPIED INTO SUBSCHEMA ALPSS07 SCHEMA ALPSCHM VERSION 94
*+           COPIED INTO SUBSCHEMA SAMSS10 SCHEMA SAMSCHM VERSION 110
*+           COPIED INTO SUBSCHEMA LXASSLR SCHEMA EMPSCHM VERSION 100
```

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                      CA-IDMS/DC Online Map Compiler

                   Computer Associates International, Inc.


  Map name . . . . . .    EMPMAP__
  Map version  . . . . .    ___1
  Dictionary name  . . .    DEMO____
  Dictionary node  . . .    ________

  Screen . . . . . . . . _    1. General options
                              2. Map-Level help text definition
                              3. Associated records
                              4. Layout
                              5. Field definition

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                  MAPC is currently running under control of TCF
Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

Transferring to TCF from MAPC: After you generate the map, you want to transfer to the TCF Selection screen to see what options are currently available to you. You can transfer to the TCF Selection screen from MAPC by entering 'switch tcf' on the command line or by selecting the SWITCH option from the action bar of the online map compiler main menu.

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                      CA-IDMS/DC On    Task ID TCF_____
                                      -----------------
                   Computer Associat   F3=Exit
                                       ________________


  Map name . . . . . .    EMPMAP__
  Map version  . . . . .    ___1
  Dictionary name  . . .    DEMO____
  Dictionary node  . . .    ________

  Screen . . . . . . . . _    1. General options
                              2. Map-Level help text definition
                              3. Associated records
                              4. Layout
                              5. Field definition

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Command ===>switch tcf
Enter  F1=Help  F3=Exit  F10=Action
```

The Selection screen is displayed: The Selection screen is displayed when transferring from the online map compiler to TCF.

If you decide to go back and complete the MODEMP dialog definition, you can resume your suspended ADSC session by typing ***x*** in front of the session descriptor on the TCF Selection screen.

```
                    Computer Associates International
TRANSFER CONTROL FACILITY               *** SELECTION SCREEN ***



_ SUSPEND TCF SESSION   (PF9)           DBNAME..:           DBNODE..:
_ TERMINATE TCF SESSION (PF3)           DICTNAME: DEMO      DICTNODE:

         *TCF TASKCODES*                            *SUSPENDED SESSIONS*
SELECT ONE TO START A NEW SESSION          SELECT ONE TO RESUME AN OLD SESSION
                                                   TASKCODE        DESCRIPTOR
_ TCF                                              x ADSCT         MODEMP 0001
_ ADSCT      DIALOG COMPILER                       _ MAPC          EMPMAP 0001
_ ADSAT      APPLICATION COMPILER_ MAPC            _ IDD
_ ASF        AUTOMATIC SYSTEM FACILITY
_ IDDMT      IDD MENU MODE
_ IDDT       IDD COMMAND MODE
_ MAPCT      MAP COMPILER
_ OCFT       ONLINE COMMAND FACILITY
_ OLQT       CA-OLQ COMMAND MODE
_ SCHEMAT    SCHEMA COMPILER
_ SSCT       SUBSCHEMA COMPILER
_ SYSGENT    SYSGEN COMPILER
```

Note: TCF uses system generation parameters to construct the Selection screen dynamically, so the TCF Selection screen displayed at your site may differ from the one shown. Furthermore, system administrators at each site can add other online applications to the TCF environment. For details about preparing a program to run under TCF, see *CA-IDMS Navigational DML Programming*.

Your suspended ADSC session is resumed

```
  Add  Modify  Compile  Delete  Display   Switch
 ____________________________________________________________________________

                      CA-ADS Online Dialog Compiler

                  Computer Associates International, Inc.


  Dialog name . . . . . .   MODEMP__
  Dialog version  . . . .   ___1
  Dictionary name . . . .   DEMO
  Dictionary node . . . .   ________

  Screen  . . . . . .  1  1. General options
                          2. Assign maps
                          3. Assign database
                          4. Assign records and tables
                          5. Assign process modules

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                    ADSC is currently running under control of TCF
Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

Chapter 2. Using TCF

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2.2 Invoking TCF 2-4
2.3 Transferring between development tools 2-6
2.4 Invoking a development tool 2-7
2.5 Exiting from a development tool 2-9
2.6 Exiting from TCF 2-11

2.1 About this chapter

To use TCF, you must first invoke TCF from a DC/UCF system. Control remains within TCF until you exit from TCF and return to DC/UCF. While you are under TCF, you can transfer directly between any of the development tools that operate under TCF without losing your place within the various tools. TCF also allows you to transfer to and from the Selection screen at any time.

Invoking TCF from DC/UCF, transferring between development tools, invoking and exiting from a development tool, and exiting from TCF are discussed in this section.

2.2 Invoking TCF

Specifying a task code: Invoke TCF from a DC/UCF system by specifying any task code that is defined for use under TCF. For example, invoke TCF from CA-IDMS/DC by specifying a task code (such as 'tcf') after the ENTER NEXT TASK CODE prompt, as shown below:

```
ENTER NEXT TASK CODE:
 tcf
```

Note: A task code is the unique name (such as ADSAT) or the function key (such as PF3) that requests access to a development tool or online compiler. Task codes for use under TCF are defined at system generation time and can differ from site to site.

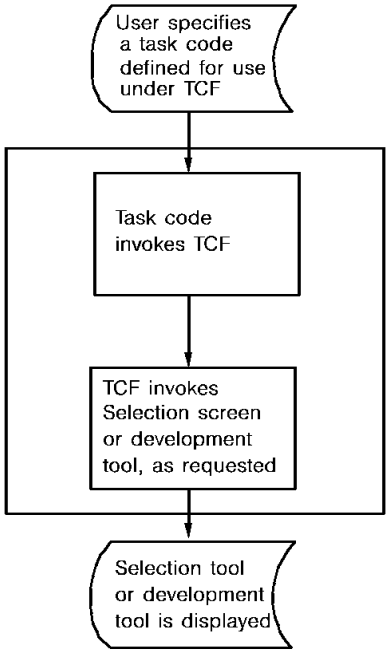
If you are using a teleprocessing monitor other than CA-IDMS/DC, specify a task code after the prompt presented by that monitor.

Selecting a task code: Decide which task code to use based on what you need to access under TCF. For example, you can use a task code to access either:

- **The TCF Selection screen** -- The Selection screen displays and allows you to select options under TCF. A task code for the Selection screen is defined at system generation time. For example, TCF can be defined as the task code for the Selection screen.
- **A development tool** -- Each development tool under TCF is associated with a unique task code at system generation time. For example, IDDT can be defined as the task code for online IDD under TCF.

Invoking TCF from a DC/UCF system: TCF is invoked when you specify a task code defined for use under TCF. Then, TCF invokes the Selection screen or the development tool identified by the supplied task code.

The diagram below shows what happens when you supply a task code to a DC/UCF system.



2.3 Transferring between development tools

While using TCF, you can transfer control to and from development tools whenever necessary. TCF handles all your requests to invoke or exit from development tools and transfers control accordingly. How TCF evaluates your requests to invoke and exit from development tools is discussed next. For more details on using specific tools under TCF, refer to Chapter 5, “Development Tools under TCF” on page 5-1.

2.4 Invoking a development tool

Invoking tools from different locations: You can invoke a development tool under TCF from any of the following locations:

- **DC/UCF** -- Specify the task code defined for the development tool under TCF.

  It is important to invoke tools using the task code defined for use under TCF at system generation time. Refer to the product and task code table in Chapter 4 for a list of sample task codes associated with specific product codes. For example, specify the task code defined for ADSC under TCF (such as ADSCT) to invoke ADSC directly from DC/UCF.

- **The TCF Selection screen** -- Select the development tool's task code from the screen.

  Select a task code from the Selection screen by typing a nonblank character in front of the task code name (even if the task code is a function key name).

  For example, if SSCT is the task code for the online subschema compiler under TCF, invoke the subschema compiler by selecting SSCT from the list of task codes on the Selection screen. For more information on the Selection screen, see Chapter 3, “TCF Selection Screen” on page 3-1.

- **Another development tool** -- Use any command or function key that transfers control from that tool to another.

  For example, use the SWITCH command in online IDD to transfer from IDD to ADSC. For more information about transferring from specific tools underTCF, see Chapter 5, “Development Tools under TCF” on page 5-1.

Beginning a new session or resuming a session: When you invoke a development tool under TCF, you can request to:

- **Begin a new session** of the tool.

  For example, start a new session of MAPC to define a new map. TCF handles a request to start a new development tool session as described in the table that follows.

- **Resume a suspended session** of the tool.

  For example, resume a suspended ADSC session to continue working on the dialog being defined in the requested ADSC session.

Requesting a new development tool session: TCF handles your request to start a new development tool session based on the number of simultaneous sessions you can have for the requested tool.

Development tool	TCF response when you request a new development tool session
■ ADSA ■ ADSC ■ MAPC	Because you can have two or more simultaneous sessions of each of these tools, TCF starts a new session of the requested tool.
■ IDD menu facility ■ Online command facility ■ Online IDD ■ Online schema compiler ■ Online system generation compiler	Because you can have only one session at a time of each of these tools, TCF: ■ Resumes your suspended session of the requested tool, if you have one ■ Starts a new session of the requested tool if you don't currently have a suspended session of that tool
■ ASF ■ CA-OLQ	Because you can have only one session at a time of each of these tools, TCF restarts a session using retained signon and table information.

2.5 Exiting from a development tool

When you specify a destination: If you specify a destination when you exit a tool, TCF transfers you to the requested location. You can request transfer to:

- Another development tool under TCF
- The Selection screen
- DC/UCF

When you don't specify a destination: If you don't specify a destination when you exit a tool, TCF transfers you to:

- The development tool session that you most recently suspended
- The DC/UCF system, if you have no suspended sessions

You remain under TCF when you exit from a development tool session unless you explicitly request exit from TCF or you have no suspended TCF sessions. For more information on transfer of control from a specific development tool, refer to the discussion of that development tool in Chapter 5, “Development Tools under TCF” on page 5-1.

The current development tool session can be either suspended or terminated when you exit from the tool session.

Suspending a session: If the development tool session is suspended, the current definition or report is saved.

For example, if you are using ADSC to define a dialog and need to use IDD to verify the name of a process module, you can suspend the current ADSC session to transfer to IDD. You can then resume the ADSC session when you are finished using IDD.

When you suspend a development tool session under TCF, an identifier for the session is added to the end of your list of suspended sessions. The identifier for the suspended development tool session remains in your list until you either resume the suspended session or request that your list be cleared on exit from TCF (as described next in 2.6, “Exiting from TCF” on page 2-11).

You can view your **list of suspended sessions** at any time by transferring to the Selection screen. For example, if you've forgotten the name of one of your suspended dialog definitions, you could transfer to the Selection screen and look at your list of suspended sessions. You also can resume any of the listed sessions by selecting the session from your list on the Selection screen. For more information on the Selection screen and your list of suspended sessions, see Chapter 3, “TCF Selection Screen” on page 3-1.

Terminating a session: If the development tool session is terminated, the current definition or report is cleared.

For example, you can terminate your current IDD session on exit if you are finished using IDD to verify information.

2.6 Exiting from TCF

How to exit from TCF: Exiting from TCF returns control to the DC/UCF system. You can exit from either of the following locations:

- **From the Selection screen**, as discussed in Chapter 3, “TCF Selection Screen” on page 3-1.
- **From a development tool** under TCF, by using the SWITCH command as discussed in Chapter 4, “SWITCH Command” on page 4-1.

Suspending or terminating TCF when you exit: You can either suspend or terminate TCF when you exit. Decide whether to suspend or terminate TCF as follows:

- **Suspend TCF** to save your current list of suspended development tool sessions. Your list will be available the next time you invoke TCF.

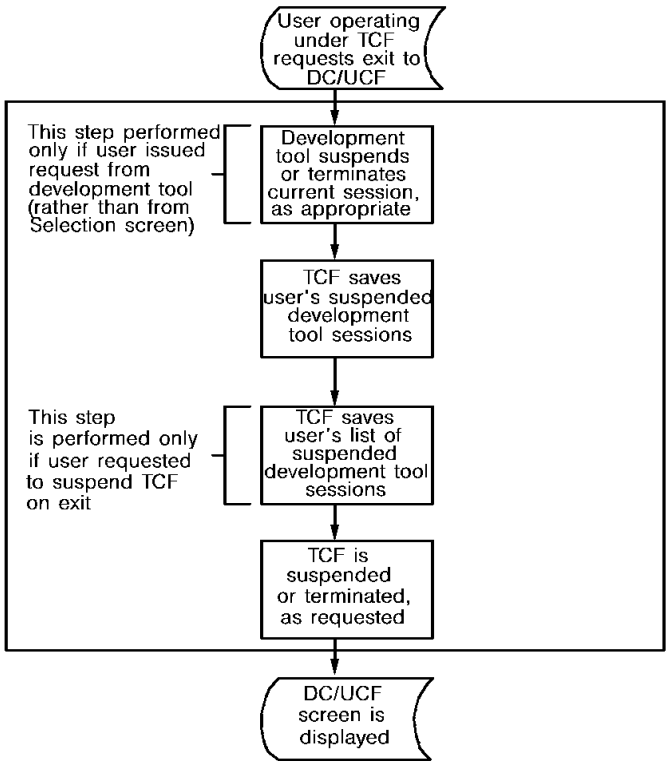
  You can resume any of your suspended sessions by selecting the session from your list of suspended sessions (while under TCF). You can also resume any suspended session by invoking the appropriate development tool (while under TCF or directly from DC/UCF) and specifying the name of the definition being created in the suspended session.

- **Terminate TCF** to clear your current list of suspended development tool sessions. Your suspended sessions are not affected by this action.

  You can resume any of your suspended sessions by invoking the appropriate development tool (while under TCF or directly from DC/UCF) and specifying the name of the definition being created.

Exiting from TCF to the DC/UCF system: You can exit to the DC/UCF system from the Selection screen or directly from a development tool. If the user suspends TCF on exit, TCF saves the user's list of suspended development tool sessions. If the user terminates TCF on exit, TCF clears the user's list of suspended development tool sessions. In both cases, the actual suspended development tool sessions are saved.

The diagram below shows what happens when you exit from TCF.



Chapter 3. TCF Selection Screen

3.1 About this chapter 3-3
3.2 About the Selection screen 3-4

3.1 About this chapter

This chapter describes how to use the TCF selection screen.

3.2 About the Selection screen

What you can do from the Selection screen: The Selection screen lists and allows you to select options that are currently available to you under TCF. Use the Selection screen to perform any of the following operations.

- View your list of suspended development tool sessions
- Specify a dictionary or database name to be passed between development tools
- Initiate a new development tool session
- Resume a suspended development tool session
- Return control to the DC/UCF system

Transferring to the Selection screen: You can transfer to the Selection screen at any time while under TCF. The Selection screen lists the task codes of all available development tools. Additionally, the Selection screen displays an up-to-date list of your suspended development tool sessions each time you transfer to the Selection screen. The Selection screen can display identifiers for up to 13 suspended development tool sessions.

Note: When you have 13 suspended sessions, TCF automatically transfers control to the Selection screen after you suspend each additional development tool session. A message on the Selection screen informs you that your list is full, and that the suspended session's identifier has not been added to the list. To resume the additional suspended session, invoke a new session of the tool and specify the name of the definition being created in the suspended session.

Sample Selection screen: The Selection screen allows you to transfer control to a new development tool session, a suspended development tool session, or back to the DC/UCF system. A sample Selection screen is shown below. Options available from the Selection screen are described in the table that follows. Sample identifiers made up of the session's task code and descriptor are shown.

```
             Computer Associates International, Inc.
TRANSFER CONTROL FACILITY              *** SELECTION SCREEN ***



_ SUSPEND TCF SESSION   (PF9)          DBNAME..:           DBNODE..:
_ TERMINATE TCF SESSION (PF3)          DICTNAME: DEMO      DICTNODE:

         *TCF TASKCODES*                          *SUSPENDED SESSIONS*
SELECT ONE TO START A NEW SESSION         SELECT ONE TO RESUME AN OLD SESSION
                                               TASKCODE        DESCRIPTOR
_ TCF                                          _ ADSAT         EMPINFO 001
_ ADSCT      DIALOG COMPILER                   _ ADSCT         MODEMP  0001
_ ADSAT      APPLICATION COMPILER              _ ADSCT         EMPLIST 0001
_ ASFT       AUTOMATIC SYSTEM FACILITY         _ MAPCT         EMPMAP  0001
_ IDDMT      IDD MENU MODE                     _ IDDT
_ IDDT       IDD COMMAND MODE
_ MAPCT      MAP DEFINITION
_ OCFT       ONLINE COMMAND FACILITY
_ OLQT       OLQ COMMAND MODE
_ SCHEMAT    SCHEMA COMPILER
_ SSCT       SUBSCHEMA COMPILER
_ SYSGENT    SYSGEN COMPILER
```

TCF Selection screen options

Option	Field	Description
Exit from TCF	SUSPEND TCF SESSION (PF9)	■ Returns control to DC/UCF. ■ Saves your list of suspended development tool sessions.
	TERMINATE TCF SESSION (PF3)	■ Returns control to DC/UCF. ■ Clears your list of suspended development tool sessions.
	USAGE: Select either exit option in one of the following ways: ■ Type a nonblank character in front of either field. For example, type an 'x' as shown below to select SUSPEND TCF SESSION: `x SUSPEND TCF SESSION (PF9)` ■ Press the associated function key. For example, press PF9 to select SUSPEND TCF SESSION.	
Specify a database or dictionary name	DBNAME	Names the database (if any) that you've most recently specified.

Option	Field	Description
	DBNODE	Names the database node (if any) that you've most recently specified.
	DICTNAME	Names the dictionary (if any) that you've most recently specified.
	DICTNODE	Names the dictionary node (if any) that you've most recently specified.
	USAGE: Displays and allows you to specify the database or dictionary name to be passed between development tools. For example, specify the DEMO dictionary as shown below: `DICTNAME: demo  DICTNODE:` You also can specify database or dictionary values in either of the following locations: ■ A development tool ■ DC/UCF (using a DCUF command)	
Start a new development tool session	TCF	Task code for TCF Selection screen
	ADSCT	Task code for ADSC
	ADSAT	Task code for ADSA
	ASFT	Task code for ASF
	IDDMT	Task code for IDD menu facility
	IDDT	Task code for online IDD
	MAPCT	Task code for MAPC
	OCFT	Task code for online command facility
	OLQT	Task code for OLQ
	SCHEMAT	Task code for online schema compiler
	SSCT	Task code for online subschema compiler
	SYSGENT	Task code for system generation compiler

Option	Field	Description
	USAGE: Request a new development tool session by typing a nonblank character in front of its task code. For example, select online IDD from the Selection screen by typing an 'x' as shown below: `x IDDT  IDD COMMAND MODE`	
Resume a suspended development tool session	TASKCODE	Lists the task code for each session in your list of suspended sessions. For example, the task code for ADSC (such as ADSCT) is listed for each of your suspended ADSC sessions.
	DESCRIPTOR	List descriptors for your suspended ADSA, ADSC, and MAPC sessions. A descriptor is created from the name and version number of the entity being defined in the suspended session.
	USAGE: Displays your list of suspended development tool sessions by task code (and by descriptor when appropriate). Resume a suspended session by typing a nonblank character in front of the session identifier. For example, resume a suspended ADSC session by typing an 'x' as shown below: `x ADSCT  EMPLIST 0001` In the above example, the suspended ADSC session defines the EMPLIST dialog.	

Remember: A different task code may be defined for use under TCF at your site.

Chapter 4. SWITCH Command

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4.3 Using the SWITCH command 4-8

4.1 About this chapter

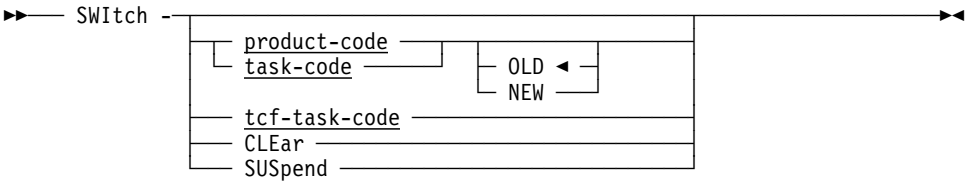
This chapter describes how to use the SWITCH command to transfer directly from one development tool under TCF to another.

4.2 The SWITCH command

Purpose: The SWITCH command allows you to transfer directly from one development tool under TCF to another. For example, while under TCF you can use SWITCH to transfer from IDD to ADSC without having to return to the Selection screen. Use SWITCH to perform any of the following operations:

- Initiate a new development tool session
- Resume a suspended development tool session
- Display the TCF Selection screen
- Return control to the DC/UCF system

Syntax



Parameters

SWItch

Suspends the current development tool session. Control transfers back to the most recently suspended development tool session. If no suspended session exists, SWITCH transfers control to the DC/UCF system.

product-code

Specifies the development tool to which control should transfer.

Product-code identifies a development tool by a unique system-supplied invocation name defined at system generation on the TASK statement.

For example, IDD is the product code for online IDD; SSC is the product code for the online subschema compiler.

Product codes are defined for use only within TCF.

task-code

Identifies a development tool by its unique installation-defined invocation name.

For example, IDDT has been defined as the task code for online IDD; SSCT has been defined as the task code for the online subschema compiler. Task codes are defined at system generation time and can vary from site to site.

OLD

OLD, the default, resumes the most recently suspended session of the specified development tool. If no suspended session exists, OLD starts a new session of the development tool.

NEW

Starts a new session of the specified development tool.

Note: If you have a suspended IDD menu facility, online IDD, schema compiler, subschema compiler, or system generation compiler session, NEW resumes that suspended session, since you can have only one suspended session of each of these tools.

Note: The OLD and NEW options are not valid with the ADSA, ADSC, and MAPC task codes.

tcf-task-code

Tcf-task-code is the task code that invokes the transfer control facility.

When you specify it with the SWITCH command, the TCF Selection screen is displayed.

Tcf-task-code must be defined at system generation time and can vary from site to site. For example, TCF is the installed task code for the transfer control facility.

CLEAR

Causes TCF to:

- Clear your list of suspended development tool sessions.
- Return control to the DC/UCF system.

Your suspended development tool sessions are not affected by this action. You can resume any of your suspended sessions by invoking the appropriate development tool (while under TCF or directly from the DC/UCF system) and specifying the name of the definition being created in the suspended session.

Note: The CLEAR option is not used with ADSAT, ADSCT, or MAPCT task codes.

SUSPEND

Causes TCF to:

- Save your list of suspended development tool sessions.
- Return control to the DC/UCF system.

Note: The ADSA, ADSC, and MAPC compilers automatically suspend sessions (and save the contents of the session in queue records) when you leave the compiler. Therefore, the SUSPEND option has no affect when used with ADSA, ADSC, or MAPC.

Your list will be available to you next time you invoke TCF. You can resume any of your suspended development tool sessions by selecting the session from your list of suspended sessions (while under TCF). You also can resume any suspended session by invoking the appropriate development tool (while under TCF or directly from the DC/UCF system) and specifying the name of the definition being created in the suspended session.

Note: Do not use SUSPEND to exit the schema or subschema compilers if you are using the Automatic System Facility (ASF) in the same online session. In this case, use END or the signoff command.

Usage:

Product and task codes: In a SWITCH command, you can specify a development tool's product or task code to transfer to that development tool. Additionally, you can use a task code defined for use under TCF to invoke the associated development tool directly from a DC/UCF system.

The table below lists product codes and sample task codes for use under TCF.

Development Tool	Product Code	Sample Task Code[1]	Site Task Code
CA-ADS application compiler (ADSA)	ADSA	ADSAT	
CA-ADS dialog compiler (ADSC)	ADSC	ADSCT	
Automatic System Facility (ASF)	ASF	ASFT	
IDD menu facility	IDDM	IDDMT	
Online IDD	IDD	IDDT	
Online map compiler (MAPC)	MAPC	MAPCT	
Online command facility (OCF)	OCF	OCFT	
CA-OLQ	OLQ	OLQT	
Online schema compiler	SCHEMA	SCHEMAT	
Online subschema compiler	SSC	SSCT	
Online system generation compiler	SYSGEN	SYSGENT	

1 Task codes for use under TCF are defined at system generation time and can vary from site to site.

SWITCH command specification outcomes: Use SWITCH to transfer from one development tool session to another new or suspended development tool session, to the Selection screen, or back to the DC/UCF system.

The table below shows the outcome for each SWITCH specification.

SWITCH command specification	If you have suspended session(s)	If you don't have suspended session(s)
SWITCH	Resumes most recently suspended development tool session	Displays TCF Selection screen

SWITCH command specification	**If you have suspended session(s)**	**If you don't have suspended session(s)**
SWITCH *product or task code* OLD	Resumes most recently suspended session of requested tool	Starts new session of requested tool if tool is IDD or online compiler or displays DC/UCF screen if tool is ADSA, ADSC, or MAPC
SWITCH *product or task code* NEW	Resumes most recently suspended session of requested tool (IDD and online compilers only)	Starts new session of requested tool, if possible
SWITCH *tcf-task-code*	Displays TCF Selection screen	Displays TCF Selection screen
SWITCH CLEAR	Clears list of suspended development tool sessions and displays DC/UCF screen	Displays DC/UCF screen
SWITCH SUSPEND	Saves list of suspended development tool sessions and displays DC/UCF screen	

4.3 Using the SWITCH command

How to specify the SWITCH command: Specify the SWITCH command on the command line in a given development tool. For example, specify SWITCH as a top-line command in IDD.

When using ADSA, ADSC, or MAPC, you can also select the SWITCH activity from the action bar of the main menu.

Using SWITCH with other development tools: When operating under TCF, you can specify SWITCH and any optional parameters in any development tool presented in this table.

The table below describes methods for specifying SWITCH in development tools under TCF.

Development Tool	Specifying the SWITCH Command	Specifying Optional Parameters
ADSA, ADSC, MAPC	Select the SWITCH activity from the action bar of the main menu or	■ Specify a task or product code on the TASK ID field of the SWITCH activity.
	Type SWITCH in the command line.	■ Specify a task code or product code as a SWITCH parameter on the command line. Example: `switch idd`
IDD	Type SWITCH in the command line.	■ Specify a product code or task code as a SWITCH parameter. ■ Specify OLD or NEW as a parameter after a product or task code. Example: `switch sysgen old`
OLQ	Type SWITCH in the command line.	■ Specify a task code as a SWITCH parameter Example: `switch schema`

Development Tool	Specifying the SWITCH Command	Specifying Optional Parameters
Online schema, subschema, and system generation compilers and the online command facility	Type SWITCH in the command line.	■ Specify a product code, task code, or keyword as a SWITCH parameter. ■ Specify OLD or NEW as a parameter after a product or task code. Example: `switch idd new`

Chapter 5. Development Tools under TCF

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5.4 IDD 5-8
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5.1 About this chapter

Development tools are established for use under TCF at system generation time. Any of the following development tools and compilers can be used under TCF:

- Automatic System Facility (ASF)
- CA-ADS application compiler (ADSA)
- CA-ADS dialog compiler (ADSC)
- Online command facility (OCF)
- Online map compiler (MAPC)
- CA-OLQ (OLQ)
- IDD menu facility
- Online IDD
- Online schema, subschema, and system generation compilers

Transfer of control under TCF is discussed below for each of these development tools.

5.2 CA-ADS and the Online Map Compiler

To exit from the CA-ADS application or dialog compiler or the online map compiler, you can use either of these methods:

- Select the SWITCH activity from the action bar of the main menu of the CA-ADS application and dialog compilers or the online map compiler
- Use PF3 from the main menu screen

These methods are discussed below.

Select the SWITCH activity from the main menu: To transfer from either of the CA-ADS compilers or the online map compiler to other development tools or TCF, select the SWITCH activity from the main menu. The SWITCH activity is only available from the main menu of the CA-ADS compilers or the online map compiler.

When you select the SWITCH activity another menu is displayed. You can enter the task or product code for the development tool you want to transfer to from this activity. The table at the end of this section indicates where TCF transfers control depending on how you exit the CA-ADS compilers or the online map compiler.

Example: The example that follows shows how you use the SWITCH activity of the CA-ADS application compiler. Remember that the SWITCH activity works the same in both the CA-ADS compilers and the online map compiler.

Using the SWITCH activity:

```
  Add  Modify  Compile  Delete  Display Switch
 ____________________________________________________________________________

                        CA-ADS Application Compiler

                   Computer Associates International, Inc.



  Application name . . . .    MODEMP__
  Application version  . .    ___1
  Dictionary name  . . . .    DEMO
  Dictionary node  . . . .    ________

  Screen . . . . . . . . . _    1. General options
                                2. Responses and Functions
                                3. Global records
                                4. Task codes


         Copyright (C) 1972,1996 Computer Associates International, Inc.

Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                       CA-ADS Appli    Task ID  ________
                                      --------------------
                  Computer Associat    F3=Exit
                                       ____________________


   Application name . . . .    MODEMP__
   Application version  . .       1
   Dictionary name  . . . .    DEMO
   Dictionary node  . . . .    ________

   Screen . . . . . . . . . _    1. General options
                                 2. Responses and Functions
                                 3. Global records
                                 4. Task codes



Command ===>
Enter  F1=Help  F3=Exit  F10=Action
```

Using a program function key: You can exit only from the main menu screen of the CA-ADS compilers and the online map compiler using PF3.

```
  Add  Modify  Compile  Delete  Display  Switch
 ____________________________________________________________________________

                       CA-ADS Application Compiler

                  Computer Associates International, Inc.



   Application name . . . .    ________
   Application version  . .    ____
   Dictionary name  . . . .    DEMO
   Dictionary node  . . . .    ________

   Screen . . . . . . . . . _    1. General options
                                 2. Responses and Functions
                                 3. Global records
                                 4. Task codes


         Copyright (C) 1972,1996 Computer Associates International, Inc.

Command ===>
Enter  F1=Help F3=Exit  F10=Action
```

Transferring from CA-ADS compilers or the online map compiler: The way your current CA-ADS and map compiler sessions end and TCF transfers control on exit depends on the exit method you use. The table below summarizes what happens when you exit from either CA-ADS or the map compiler under TCF.

Each suspended session is saved in a queue record; the length of time queue records are retained is specified at system generation time and can vary from site to site.

Exit Method	TCF Actions
Selecting the SWITCH activity from the action bar of the main menu	■ Suspends your session. ■ Transfers control to the requested development tool. If you don't request a tool, control transfers to: – The DC/UCF screen, if you don't have a suspended session – The development tool session that you most recently suspended, if you have a suspended session For more information on SWITCH, see Chapter 4, "SWITCH Command" on page 4-1.
PF3	■ Terminates your session. ■ Transfers control to your most recently suspended development tool session, or to the DC/UCF screen if you have no suspended sessions.

5.3 Automatic System Facility

Exiting from ASF: Fields highlighted on the following sample ASF screen can be used to exit from ASF.

```
                    Computer Associates International
ASEL  CA - Automatic System Facility  15.0     ** Activity Selection **
DC560004 SELECT A TABLE

User Name: DOC1

_ PF1 - Help                  _ PF5 - Select Data _ PF13  - Query
_ PF2 - Define Table          _ PF7 - Page Backward _ PF14  - Signon
_ PF3 - Load Data             _ PF8 - Page Forward  _ PA1   - Prior Level
_ PF4 - Display/Change Data   _ PF9 - Passkey     _ CLEAR -  Leave ASF



Table Name.:
Table Owner: DOC1
Page:  1  of  1

_ ACCOUNTING
_ BUDGET
_ DEPARTMENT
_ EMPLOYEE
```

Function keys can also be used to exit ASF or to switch to OLQ. To leave ASF entirely, use CLEAR. To switch to OLQ, use PF13 from the Activity Selection screen or type OLQ in the simulated PF key field of any screen.

When you exit from ASF, TCF maintains the ASF session and transfers control as described in the table below. However, an ASF session is not suspended in the usual sense when you leave ASF by transferring control to OLQ. Instead, TCF maintains your ASF signon information and retains currency on the table, if one was selected. When you select ASF from your suspended sessions list, TCF uses the retained signon and table information, and displays the ASF Activity Selection screen regardless of the screen you were using when you transferred control to OLQ.

Transferring from ASF: The way your current ASF session ends and TCF transfers control on exit depends on the exit method you use, as described in this table.

Exit Method	TCF Actions
PF13--Query	■ Transfers control to OLQ, saving signon and table information.
CLEAR--Leave ASF	■ Terminates your ASF session. ■ Transfers control to your most recent suspended development tool session, or to the DC/UCF screen if you have no suspended sessions.

5.4 IDD

Exiting from IDD: Commands used to exit from IDD can be specified on the command line on IDD screens. The command line is highlighted on each of the following sample IDD screens.

```
switch mapc IDD 15.0 ONLINE      NO ERRORS      DICT=DEMO       1/559
DISPLAY RECORD EMPLOYEE VERSION 100.
*+   ADD
*+   RECORD NAME IS EMPLOYEE VERSION IS 100
*+       DATE CREATED IS      01/14/99
*+       DATE LAST UPDATED IS 03/09/99
*+       TIME LAST UPDATED IS 11541503
*+       REVISED  BY SYB
*+       RECORD LENGTH IS 116
*+       PUBLIC ACCESS IS ALLOWED FOR ALL
*+       RECORD NAME SYNONYM IS EMPLOYEE VERSION 100
*+           SUFFIX IS -0415
*+           LANGUAGE IS ASSEMBLER
*+           LANGUAGE IS FORTRAN
*+           COPIED INTO SUBSCHEMA EMPSS01 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPSSLR2 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPSSLR SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPSS02 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA ALPSS01 SCHEMA ALPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA EMPLR40 SCHEMA EMPSCHM VERSION 100
*+           COPIED INTO SUBSCHEMA ALPSS02 SCHEMA ALPSCHM VERSION 99
```

```
                  Computer Associates International, Inc.
IDD 15.0              *** MASTER SELECTION ***                   TOP
→ switch mapc
SIGNON TO IDD WAS SUCCESSFUL

DICTIONARY NAME...: DEMO         NODE NAME..:

USER NAME.........:
PASSWORD..........:

USAGE MODE........: X UPDATE    _ RETRIEVAL

PFKEY SIMULATION..: X OFF       _ ON


_ ATTR  =  ATTRIBUTE     <PF2>              _ PROC  =  PROCESS        <PF3>
_ CLAS  =  CLASS         <PF4>              _ PROG  =  PROGRAM        <PF5>
_ ELEM  =  ELEMENT       <PF6>              _ RECD  =  RECORD         <PF7>
_ FILE  =  FILE          <PF8>              _ TABL  =  TABLE          <PF9>
_ MODU  =  MODULE        <PF10>             _ USER  =  USER           <PF11>
_ ENTL  =  USER DEFINED ENTITY LIST         _ SYST  =  SYSTEM
_ MSGS  =  MESSAGE
_ QFIL  =  QFILE                            _ OPTI  =  OPTIONS
_ DISP  =  DISPLAY ALL                      _ HELP  =  HELP           <PF1>
```

When you exit from IDD, TCF suspends or terminates your IDD session and transfers control as described in the table below. The contents of a suspended IDD session are kept in a scratch record and are retained until you sign off of the DC/UCF system.

Note: You can have a maximum of one suspended online IDD session and one suspended IDD menu facility session. For example, if you have a suspended

online IDD session, you can start a new IDD menu facility session but cannot start another new online IDD session. This is because an online IDD session is totally unrelated to a simultaneous IDD menu facility session.

Transferring from IDD: The way your current IDD session ends and TCF transfers control on exit depends on the exit method you use, as described in this table.

Exit Method	TCF Actions
SUSPEND command	■ Suspends your IDD session. ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no suspended sessions.
SWITCH command	■ Suspends your IDD session. ■ Transfers control to the requested development tool. If you don't request a tool, control transfers as if you used SUSPEND (see above). For more information on SWITCH, see Chapter 4, “SWITCH Command” on page 4-1.
BYE, END, LOGOFF, or SIGNOFF command or CLEAR key, as appropriate	■ Terminates your IDD session. ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no suspended sessions.

5.5 CA-OLQ

Exiting from CA-OLQ: Commands that exit you from OLQ can be specified in the command line on OLQ screens. The command line is highlighted on each of the following sample OLQ screens.

```
switch schema


EMPLOYEE
EMPLOYEE-DBKEY   :      75011:13
EMP-ID-0415      :    349
EMP-NAME-0415    :
EMP-FIRST-NAME-0415 :  ROGER
EMP-LAST-NAME-0415 :  WILCO
EMP-ADDRESS-0415 :
EMP-STREET-0415  :  671A SNOWBANK RD
EMP-CITY-0415    :  TYNGSBORO
EMP-STATE-0415   :  MA
EMP-ZIP-0415     :
EMP-ZIP-FIRST-FIVE-0415 :  01879
EMP-ZIP-LAST-FOUR-0415 :
EMP-PHONE-0415   :   6176490190
STATUS-0415      :  01
SS-NUMBER-0415   :  111000023
START-DATE-0415  :
START-YEAR-0415  :   79
START-MONTH-0415 :   11
START-DAY-0415   :   11
:..CONTINUED
```

```
                       Computer Associates International, Inc.
       CA-OLQ 15.0                                *** MENU ***
→switch schema                                            Page     3  of      3


Select                                                Command/       Show
Pfkey  Option  Description                                  Screen Name     Help

--→  Control Activity  <---

PF3       _     Terminate OnLine Query session              QUIt              _
_     Change session options                      OPTions            _
_     Suspend OnLine Query session                SUSpend            _
PF9       _     Swap from menu mode to command mode         SWAp              _
_     Switch to Transfer Control Facility         SWItch             _

--→  Additional Help  <---

Display list of commands and pfkeys        HELp COMmands     _
Display list of selected records           HELp RECord       _
Display list of selected columns           HELp COLumn       _
Display database access path               HELp PATh         _

1=HELP         2=GLOBAL HELP         3=QUIT         4=MESSAGE         7=BWD
```

Function keys can also be used to exit from OLQ. Function keys for OLQ are defined at system generation time and can vary from site to site.

When you exit from OLQ, TCF suspends or terminates your OLQ session and transfers control as described in the table below. The contents of a suspended OLQ session are kept in a scratch record and saved until you sign off from the DC/UCF system.

Note: You can have a maximum of one suspended OLQ session. For example, you can resume but not start a new OLQ session if you already have a suspended OLQ command mode or menu facility session.

Transferring from CA-OLQ: The way your current OLQ session ends and TCF transfers control on exit depends on the exit method you use, as described in this table.

Exit Method	TCF Actions
SUSPEND command (command mode only)	■ Suspends your OLQ session(1). ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no sessions.
SWITCH command	■ Suspends your OLQ session. ■ Transfers control to the requested development tool. If you don't request a tool, control transfers as if you used SUSPEND (see above). For more information on SWITCH, see Chapter 4, "SWITCH Command" on page 4-1.
BYE, QUIT, or SIGNOFF command (or associated function key)	■ Terminates your OLQ session. ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no suspended sessions.

(1) An identifier for the suspended OLQ session is not added to your list of suspended sessions.

5.6 CA-IDMS Online Compilers

Exiting from the online compilers: The online schema, subschema, and system generation compilers and the online command facility are separate development tools. You can have one suspended session of each of these compilers at a given time. For example, if you have a suspended schema compiler session, you can resume but not start a new schema compiler session. You can start a new subschema or system generation compiler session.

The online schema, subschema, and system generation compilers and the online command facility use the same screen format as online IDD (the online DDDL compiler). Commands used to exit from an online compiler session can be entered in the command line of any online compiler screen. The command line is highlighted on the following sample online schema compiler screen.

```
switch tcf      SCHEMA 15.0 ONLINE   NO ERRORS      DICT=DEMO      1/1796
DISPLAY SCHEMA EMPSCHM VERSION 100.
*+   ADD
*+   SCHEMA NAME IS EMPSCHM VERSION IS 100
*+       DATE CREATED IS      12/10/98
*+       TIME CREATED IS      13435418
*+       DATE LAST UPDATED IS 01/12/99
*+       TIME LAST UPDATED IS 15420294
*+       REVISED  BY RPM
*+       SCHEMA DESCRIPTION IS 'EMPLOYEE DEMO DATABASE'
*+       ASSIGN RECORD IDS FROM 1001
*+       PUBLIC ACCESS IS ALLOWED FOR ALL
*+       COMMENTS
*+           'INSTALLATION: COMMONWEATHER CORPORATION'
*+       SUBSCHEMA IS EMPSS01
*+       SUBSCHEMA IS JPKSS01
*+       .
 .
 .
 .
```

When you exit from an online compiler, TCF suspends or terminates your online compiler session and transfers control, as described in the table below. The contents of each suspended online compiler session are kept in a scratch record and saved until you sign off from the DC/UCF system.

Note: Do not use SUSPEND to exit the schema or subschema compilers if you are using the Automatic System Facility (ASF) in the same online session. In this case, use END or the signoff command.

Transferring from the online compilers: The way your current online compiler session ends and TCF transfers control on exit depends on the exit method you use, as described in this table.

Exit Method	TCF Actions
SUSPEND command	■ Suspends your compiler session. ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no sessions.
SWITCH command	■ Suspends your compiler session. ■ Transfers control to the requested development tool. If you don't request a tool, control transfers as if you used SUSPEND (see above). For more information on SWITCH, see Chapter 4, "SWITCH Command" on page 4-1.
BYE, QUIT, or SIGNOFF command (or associated function key)	■ Terminates your compiler session. ■ Transfers control to your most recently suspended development tool session, or to the Selection screen if you have no suspended sessions.

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